



NC/QC/YD/2020-21/W3-SSS-C1

Date: 20-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

PHYSICAL TESTS ON CEMENTGrade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.18 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.06 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.52N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Main Road From Yelahanka Main road to 1st Cross

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For Newzen Consultants Bangalore
Director



NC/QC/YD/2020-21/W3-SSS-PCC1

Date: 20-01-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007)	
		% Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	63.55	0 -20	30- 70
10mm	31.90	0 -5	10- 35
4.75mm	4.05	----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

2. FINE AGGREGATES					
TABLE - SIEVE ANALYSIS					
IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.70	60-95	75-100	85-100	
01.18	71.15	30-70	55-90	75-100	
600.mic	45.80	15-34	35-59	60-79	
300.mic	24.65	5-20	8-30	12-40	
150.mic	5.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 5th Main Road From Yelahanka Main road to 1st Cross

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For Newzen Consultants Bangalore
Proprietor



NC/QC/YD/2020-21/W3-SSS-C2

Date: 25-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	164 min	Shall not be less than 30 min
2	Final setting time	280 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.15 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.12mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.76 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 5th Main Road From 1st Cross to 2nd Cross

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For Newzen Consultants Bangalore
Director



NC/QC/YD/2020-21/W3-SSS-PCC2

Date: 25-01-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.BJ (M/s K.B. Constructions), Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90-100
20mm	66.70	0-20	30-70
10mm	29.45	0-5	10-35
4.75mm	3.65	—	0-5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.60	60-95	75-100	85-100	
01.18	74.05	30-70	55-90	75-100	
0.60 mic	46.95	15-34	35-59	60-79	
0.30 mic	24.15	5-20	8-30	12-40	
150 mic	6.40	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 5th Main Road From 1st Cross to 2nd Cross

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For Newzen Consultants Bangalore
Proprietor



NC/QC/YD/2020-21/W3-SSS-CE1

Date: 30-01-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.07 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.19 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.35 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Main Road From 2nd to 3rd Cross

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For Newzen Consultants Bangalore
Proprietor

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Date: 30-01-2021

NC/QC/YD/2020-21/W3-SSS-FA1

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS:

Name of the Agency/Contractor : _____

TABLE - 1.1 : SIEVE ANALYSIS:					Remarks
IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	The Sample Conforms to Grading Zone-II
04.75	98.35	90-100	90-100	90-100	
02.36	81.55	60-95	75-100	85-100	
01.18	74.15	30-70	55-90	75-100	
600. mic	47.65	15.34	35-59	60-79	
300.mic	24.10	5-20	8-30	12-40	
150.mic	6.55	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	18.36%	----
2	Silt Content	----	0.56%	Not more than 8%
3	Specific Gravity	----	2.61	-----

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Main Road From 2nd to 3rd Cross

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For Newzen Consultants Bangalore
Proprietor



NC/QC/YD/2020-21/W3-SSS-CA1

Date: 30-01-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.35	85-100	90 - 100
10 mm	46.20	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.35 %	Not to exceed 25 %
2.	Crushing value	28.79 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 5th Main Road From 2nd to 3rd Cross

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Date: 30-01-2021

NC/QC/YD/2020-21/W3-SSS-S1

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm TMT Steel.

{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}

Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

TABLE - 1

SL No	Details	For 10 mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	10.0 mm	10.0 mm
02	Observed Wt/m Length Kg/m	0.621	0.567
03	Proof stress/Yield stress, f_y , N/mm ²	546.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	20.60	12.00
06	Ultimate Tensile Strength N/mm ²	643.0	545.0

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 6th Main Road From 5th Cross to 4th Cross

Page No. 1/1,

For Newzen Consultants Bangalore
Proprietor



NC/QC/YD/2020-21/W3-SSS-CB1

Date: 16-02-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at SC/ST Area surrounding in ward No.3.}
Ref.: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Kumar.B.J (M/s K.B. Constructions), Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	09-02-21	16-02-21	07	22500	370	16.44	16.52
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	365	16.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 6th Main Road From 5th Cross to 4th Cross

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For Newzen Consultants Bangalore

Dr. Prakash